In the following questions, a statement of Assertion (A) followed by a statement of Reason (R) is given.

Choose the correct option out of the choices given below each question:

- (a) Assertion and Reason both are correct and Reason is the correct explanation of Assertion.
- (b)Assertion and Reason both are wrong.
- (c)Assertion is correct but Reason is wrong.
- (d)Assertion is wrong but Reason is correct.
- (e)Assertion and Reason both are correct statements but Reason is not the correct explanation of Assertion.

Question 94. Assertion (A): Nitration of chlorobenzene leads to the formation of m-nitrochlorobenzene. Reason (R): N02 group is a w-directing group.

Solution: (d) Nitration of chlorobenzene gives ortho and para nitro chlorobenzene. However, nitro group is meta directing in nature.